

YELSHIN, N.N.

64-7-10/12

AUTHORS: Yelshin, N.N., Festa, N.Ya.

TITLE: On the Automation of Chemical Works
(Ob avtomatizatsii khimicheskikh proizvodstv).

PERIODICAL: Khimicheskaya Promyshlennost', 1957, . . . Nr 7, pp. (433)
49 - (437) 53, (USSR)

ABSTRACT: In the course of work carried out in most of the branches of the chemical industry partial automation of the control and regulation of the most important technological processes was attained. A short survey is given of the degree of automation attained in the various fields. The highest degree of automation was attained in the production of synthetic rubber and methylated spirits, and in a number of plants automation is nearly complete. In the plants of organic synthesis partial automation has been attained, in those for the calculation of sodium carbonate the departments of carbonization and distillation are automatized. In the sulphuric acid industry a number of factories automatized the contact apparatus and the departments for dry absorption. In a number of superphosphate plants the operation departments are automatized, whereas in the nitrogen industry great efforts have been made to bring about automation of am-

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On the Automation of Chemical Works

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nia-salpeter production. In the plastic industry automation of the control and the regulation in factories producing formaline and polyethylene has been attained. In a number of rubber-goods and rubber tire factories partial automation has been introduced for the control of the unloading of rubber and taking it out of the rubber mixing devices, as well as for the process of vulcanization in cauldrons and individual vulcanizers. The special devices worked out by the Test- and Construction Office Automation (OKBA) are enumerated and the difficulties connected with the introduction of automation are pointed out. The work to be carried out in the near future for the automation of further branches of the chemical industry is described.

AVAILABLE: Library of Congress

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YELSHIN, N.N.

Automation in the synthetic rubber industry. Kauch. i rez. 16
no.7:8-11 Jl '57. (MIRA 10:10)
(Rubber industry) (Automation)

YELSHIN, N.N.

MAKSUTA, V.I.

5(1) b.v

PAGE 2 BOOK EXPLOITATION

807/1320

"OGBN. Gouzarditvennyy nauchno-tekhnicheskiy komitet

Avtomatizatsiya khimicheskikh i khochimicheskogo proizvodstva; sbornik statey
(Automation of the Chemical and By-product Coking Industries) Moscow,
Metallurgizdat, 1958, 777 p. 4,000 copies printed.

Additional sponsoring Agency: Akademiiya nauch RAN. Institut mehaniki i tekhnicheskoy informatsii.

Eds.: N.Ia. Post, N.N. Yelshin, and Yu.S. Gorulyaytis; Ed. of Publishing
House: N.N. Lomovskaya; Tech. Ed.: N.P. Shvetsov.

PURPOSE: This book is intended for industrial engineers and technologists interested in the state of industrial automation and may be especially useful to organizations concerned with the multifarious automation problems of the chemical industry.

COVERAGE: This collection was compiled to fulfill to some degree the need for a readily accessible information source on the latest developments in the automation of industrial processes, both foreign and domestic, and to give supplementary information on the automation state of several chemical, metallurgical, petroleum Card 1/4 and textile-cottonseed production processes.

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Card 3/4

8(0), 5(0)

SOV/112-59-4-7667

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 4, p 174 (USSR)
AUTHOR: Yelshin, N. N., and Filimonov, B. A.
TITLE: Automating the Synthetic-Rubber and Synthetic Alcohol Industry
PERIODICAL: V sb.: Avtomatiz. khim. i koksokhim. proiz-v. M., Metallurgizdat,
1958, pp 147-173

ABSTRACT: Briefly described are automation schemes of the following synthetic-rubber and synthetic-ethyl-alcohol production processes: contact decomposition of alcohol, production and purification of divinyl, emulsion polymerization, hydrocarbon pyrolysis, hydrocarbon-gases segregation, and direct hydration of ethylene. The degree of automation at foreign plants is characterized. Requirements for a complex automation are listed.

A.A.S.

Card 1/1

5(0), 28(1)

AUTHORS:

Festa, N. Ya., Yelshin, N. N.

SOV/64-59-2-1/23

TITLE:

On Automation in the Chemical Industry (Ob avtomatizatsii
khimicheskikh proizvodstv)

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 2, pp 93-97 (USSR)

ABSTRACT:

As may be concluded from pre-calculations the output of the chemical industry may be increased by automation by 50%. Automation introduced in chemical works in the course of the last years is highly efficient, and investments will be amortized on the average within 1-1.5 years. In this connection the following work was provided within the framework of the new Seven-year Plan: A general automation of works producing synthetic ammonia, nitric acid, ammonium nitrate, as well as an automation of several works for contact sulfuric acid, superphosphate, calcined soda, synthetic rubber, and synthetic alcohol, as well as of all new works for fertilizers, plastics, dyes, synthetic fibers, and other chemical products. Compared to the automation in the USA, only 1-3% (in exceptional cases 8-10%) of the costs of the plants are used for automation in the varnish color, aniline color, and basic industries of the USSR. By 1965 the percentage will be raised to 20% (instead

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On the Automation in the Chemical Industry

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of 10% in 1959). The design and production of 85-90% of the devices for automation will be carried out by the general apparatus-manufacturing industry, while 10-15% (for special purposes of the chemical industry) will be produced within the framework of the Goskhimkomitet, mainly in the Opytno-konstruktorskoye byuro avtomatiki (OKBA) (Experimental Design Office for Automation (OKBA)). The number of collaborators in the research- and planning institutes of the Goskhimkomitet dealing with problems of automation should be at least 10-15% of the entire staff. In the coming years also research work on problems of the reliability of automated processes will be carried out in the institutes of the Goskhimkomitet. The establishment of a few generally automatized works for test purposes is provided in the new Seven-year Plan. Already in 1959 the research work will be started. The readjustment of automation of individual works departments to general automation will serve as a rule in the development of automation of the chemical industry in the coming years. The Institut avtomatiki i telemekhaniki AN SSSR (Institute of Automation and Telemechanics of the AS USSR), the Tsentral'nyy institut kompleksnoy avtomatizatsii Gosplana SSSR (Central Institute of Complex

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Automation of the Gosplan of the USSR), and groups of scientists at the universities, as well as experts from institutions dealing with this subject will take part in the automation of the chemical industry.

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YELSHIN, N.N., inzh.

Automation of chemical production processes. Mekh. i avtom. proizv. 15
no. 3:4-10 Mr '61. (MIRA 14:3)
(Automation) (Chemical industries)

GALKINA, T.A. [Halkina, T.O.]; YELSHINA, M.A. [Yelshina, M.O.].

Electrophoretic characteristics of proteins of the paratyphoid
A bacillus and yellow cultures isolated together with it. Mikro-
biol. zhur. 24. no.4:7-12 '62. (MIRA 16:5)

1. Institut mikrobiologii AN UkrSSR.
(PROTEINS) (SALMONELLA PARATYPHI)
(PAPER ELECTROPHORESIS)

YELSHINA, M.A.

Yellow strains isolated during research on paratyphoid A. Zmru.
mikrobiol. epid. i immun. no.10:98 O '54. (MLRA 8:1)

1. Iz Ukrainskogo instituta epidemiologii, mikrobiologii i gigiyeny
(PARATYPHOID FEVER--BACTERIOLOGY)

YELSHINA, M.O.

DYACHENKO, S.S.; YELSHINA, M.O.

Study of the antigen structure of *Shigella paradyENTERIAES Sonne*;
second report. Mikrobiol. zhur. 16 no.3:70-78 '54. (MLRA 8:7)

1. Z Mikrobiologichnogo viddilu Udrains'kogo institutu epidemi-
logii ta mikrobiologii, m. Kiiv.

(SHIGELLA,
dysenteriae, antigenic structure)

(ANTIGENS AND ANTIBODIES,
Shigella dysenteriae antigenic structure)

YELSHINA, M.A.

Atypical strains of paratyphoid bacteria A. Zhur.mikrobiol.epid.i
immun. no.3:76-77 Mr '55. (MLRA 8:7)

1. Iz Kiyevskogo instituta epidemiologii, mikrobiologii i gigiyeny
(dir. kandidat meditsinskikh nauk S.N.Terekhov).
(SALMONELLA PARATYPHI,
A, atypical strains)

YELSHINA, M.A.; ZIMKIN, N.V.; MOREVA, Z.Ye.

Formation of conditioned motor defense reflexes in mice following
the application of an unconditioned stimulus before a conditioned
stimulus. Zh. vys. nerv. deiat. 5 no.6:881-891 N-D '55. (MLRA 9:3)

1. Kafedra fiziologii Voenного института физической культуры и
спорта имени В.И. Ленина.
(REFLEX, CONDITIONED,
defense & motor reflexes in mice, eff. of preliminary
unconditioned stimulus)

GROMASHEVSKIY, L.V., professor, otvetstvennyy redaktor; DYACHENKO, S.S., professor, redaktor; YELSHINA, M.A., kandidat meditsinskikh nauk, redaktor; ZAYDENBERG, Ye.G., kandidat meditsinskikh nauk, redaktor; PADALKA, B.Ya., professor, redaktor; SEREBRENIKOVA, V.I., kandidat meditsinskikh nauk, redaktor; SORVINA, L.Ye., kandidat meditsinskikh nauk, redaktor; TEREKHOV, S.N., kandidat meditsinskikh nauk, redaktor; KHOMENKO, G.I., professor, redaktor; ZATULOVSKIY, B.G., redaktor; LOKHMATYY, Ye.G., tekhnicheskiy redaktor

[Dysentery; a collection of scientific papers] Dizenteriia;
ob"edinennyi sbornik nauchnykh rabot. Kiev, Gos.med. izd-vo USSR,
1956. 265 p. (MLRA 10:1)

1. Kiyevskiy institut epidemiologii i mikrobiologii. 2. Deystvitel'-nyy chlen AMN SSSR (for Gromashevskiy)
(DYSENTERY)

~~YELSHINA, M.O.; ZAYDENBERG, Ye.G.; LITOVCHENKO, O.T.; ZATULOVSK'KIY, B.O.;~~
~~SHOBS, Z.V.; ZANZDRA, L.I.~~

Study of the nature of atypical strains recovered from dysentery patients in Kiev. Mikrobiol. zhur. 18 no.1:20-26 '56. (MIRA 9:7)

1. Z Kiivs'kogo naukovo-dostidnogo institutu epidemiologii i mikrobiologii.
(SHIGELIA PARADYSENTERIAE)

YELSHINA, M.A.

YELSHINA, M.A., kand.med.nauk; ZAYDENBERG, Ye.G., kand.med.nauk

*Etiology of acute intestinal toxinflections. Vrach.delo supplement
'57:66-67*

(MIRA 11:3)

*1. Laboratoriya kishechnykh infektsiy (zav.-kand.med.nauk M.A. Yelshina)
Kiyevskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(INTESTINES--DISEASES)*

YELSHINA, M.A.

YELSHINA, M.A.; ZATULOVSKIY, B.G.; LITOVCHENKO, Ye.T.; SHUBS, Z.V.

Identification of atypical intestinal bacteria. Leh.delo 3 no.3:
38-42 Ky-Je '57. (MIRA 10:9)

1. Iz laboratorii kishechnykh infektsiy (zav. - M.A.Yelshina)
Kiyevskogo instituta epidemiologii i mikrobiologii
(INTESTINES--BACTERIOLOGY)

USSR/Microbiology. Microbes Pathogenic for Man and
Animals

F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57647

Author : Yelshina M. A., Zaydenberg Ye. G., Zatulovskiy B. G., Litovchenko Ye. T., Shubs Z. V.

Inst : Not given
Title : On Atypical Strains of Microbes of the Coli Group Isolated from Healthy Persons

Orig Pub : Mikrobiol. zh., 1957, 19, No 2, 43-48

Abstract : In the course of bacteriological investigation of 72,342 practically healthy persons for dysentery, 265 atypical cultures (0.3%) were isolated from the bacillus vectors (0.9%). 256 of the 265 atypical strains belonged to the non-agglutinating group; the remainder agglutinated with the Sonne and Flexner sera, but were

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USSR/Microbiology. Microbes Pathogenic for Man and
Animals

F

APPROVED FOR RELEASE: 03/15/2001, CIA-RDP86-00513R001962620001-4

Abstract : atypical in their biochemical properties. 98 atypical strains were studied in detail. By the use of various methods--passages through meat-peptone media, bile bullion, organism of mice--it was possible to identify a part of the cultures. Particularly useful for the purposes of identification of atypical strains, in the authors' opinion, is the diagnostic method of cultivating cultures on a synthetic medium with or without nicotinic acid, which they proposed; with the help of this method they succeeded in relating most of the atypical strains they had studied to the coli bacillus.

Card 2/2

USSR/Microbiology. Microbes Pathogenic for Man and
Animals

F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57646

Author : Yelshina M. A., Zaydenberg E. G., Zatulovskiy B.
G., Litovchenko Ye. T., Shubs Z. V.

Inst : Not given

Title : Investigation of the Nature of Atypical Strains
and Methods of their Identification

Orig Pub : Zh. mikrobiol., epidemiol. i immunologii,
1957, No 5, 62-67

22

Abstract : As a result of a number of examinations conducted
of 432 persons suffering from acute and
chronic dysentery atypical strains were found
in 48 of the patients. In the cases of chronic
dysentery the number of atypical strains was
3.6 times greater than that in acute cases. One
hundred seventeen cultures which on the basis

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USSR/Microbiology. Microbes Pathogenic for Man and
Animals

F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57646

Abstract : of their biochemical (95 cultures) and serological properties (22 strains) were divided into two atypical groups were studied in all. The first group were comparatively easily identified as dysentery bacteria after passages on agar and bile. On this basis, the authors assume that the atypical agglutinating cultures should be regarded as dysentery cultures. The bacteria of the second group are difficult to identify. However, prolonged passages and selection made it possible to classify 12 of 22 examined cultures as dysentery cultures and only 2 were classified as nonpathogenic coli bacteria. Contrary to these data, the mass examination of practically healthy persons disclosed a small number of atypical cultures (0.3%), the

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USSR/Microbiology. Microbes Pathogenic for Man and F
Animal

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57646

Abstract : largest number of which were later identified
as cultures originating from the coli bacillus.
The identification of the atypical cultures
lead the way to the application of seeding on
a synthetic medium with or without nicotinic
acid.

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YELISHINA, M.A.; ZATULOVSKIY, D.G.; LITOVCHENKO, Ye.T.

Origin of atypical strains isolated during bacteriological examination for dysentery; experimental study. Zhur. mikrobiol. epid. i imun. 29 no.12: 101-106 D '58. (MIRA 12:1)

1. Iz Kiyevskogo instituta epidemiologii i mikrobiologii.
(DYSENTERY, BACILLARY, microbiology,
atypical strains (Rus))

BALABAN, V.G. prof., YELSHINA, M.A., dots. MOL'CHENKO, Ye.P.

Coli pyspepsia.[with summary in English]. Pediatriia 36 no.5:10-16
My'58 (MIRA 11:6)

I. Iz Kiyevskogo meditsinskogo instituta (dir. - dotsent I.P.
Aleksayenko) i Kiyevskogo instituta epidemiologii i mikrobiologii
(dir. - dotsent S.N. Terekhov).
(DISPEPSIA)

YELSHINA, M.A.

Ontogenetic characteristics of the action of the cervical sympathetic trunk and the superior cervical ganglion in cats and rabbits. Fiziol. zhur. 51 no.8:952-959 Ag '65. (MIRA 18:7)

1. Laboratoriya razvitiya vegetativnoy nervnoy sistemy Instituta evolyutsionnoy fiziologii i biokhimii imeni Sechenova AN SSSR, Leningrad.

YEISHINA, M.A. [Eishyna, M.O.]; GALKINA, T.A. [Halkina, T.O.]

Immunochemical analysis of protein fractions of chromogenic (yellow) bacteria isolated from the blood of paratyphoid patients. Mikrobiol. zhur. 26 no.2:7-11 '64. (MIRA 18:8)

1. Kiyevskiy nauchno-issledovatel'skiy institut epidemiologii i mikrobiologii Ministerstva zdravookhraneniya i Institut mikrobiologii AN UkrSSR.

YELSHINA, M.A. [IElshyna, M.O.]; GALKINA, T.A. [Halkina, T.O.]

Study of the antigenic composition of protein fractions in
Salmonella paratyphi A. Mikrobiol. zhur. 26 no.1:20-25 '64.
(MIRA 18:11)

1. Kiyevskiy nauchno-issledovatel'skiy institut epidemiologii
i mikrobiologii i Institut mikrobiologii AN UkrSSR.

YELSHINA, M.A.

Antigenic structure of yellow-pigment gram-negative bacteria isolated from man. Report No.1: K-antigens. Zhur. mikrobiol.; epid. i immun. 41 no.6:86-91 Je '64. (MIRA 18:1)

1. Kiyevskiy institut epidemiologii i mikrobiologii.

GAIKINA, T.A. [Halkina, T.O.]; YELSHINA, M.A. [Mlyshyna, M.O.]

Chemical composition of the paratyphoid A bacillus and the
yellow cultures isolated together with it. Mikrobiol. zhurn.
25 no.6: 3-6 '63 (MIRA 17:7)

1. Institut mikrobiologii AN UkrSSR i Kivevskiy nauchno-issledo-
vateľ'skiy institut mikrobiologii i epidemiologii.

YEL'SHOV, Ye.

Short life of Colombia coal miners. Mast.ugl. 9 no.4:29 Ap '60.
(MTRA 13:11)
(Colombia--Coal miners)

YEL'SINOVKSIY, V. [B.]

Foundations

Prefabricated foundations of large blocks. Zhil.-kom.khoz, 2 no. 7, 1952

9. Monthly List of Russian Accessions, Library of Congress, November 1952, Uncl.

YEL'SINOVSKIY, V. B.

Stucco

Cement stucco finishing of high durability.
Mekh. trud. rab. 6 no. 3, 1952

Monthly List of Russian Accessions, Library of Congress, June 1952. UNCLASSIFIED

YEL'SINOVSKIY, V. B. Eng.

Reinforced Concrete Construction

Experience in manufacturing heavy, pre-fabricated reinforced concrete sections in outdoor workshops. Biul. stroi. tekhn. 9 no. 15, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November 1951, Uncl. ²

DEL'SINOVSKIY, V. B.

Stroitel'stvo domov iz krupnykh blokov [Building houses with large blocks]. Moskva,
Gos. izd-vo lit-ry po strot. i arkhit., 1953. 140 p.

SO: Monthly List of Russian Accessions, Vol. 6 No. 11 February 1954

1. VEL'SIMOVSKIY, V. S., Eng.
2. USSR (690)
4. Buildings, Prefabricated
7. Manufacture and use of large blocks in housing construction, Mekh. trud. rab. 7, no. 1, 1953
9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962620001-4

YEL'SINOVSKIY, V.B., inzhener.

Universal precasting system for the production of large-size building units.
Stroi.prom. 31 no.6:6-12 Je '53. (MLRA 6:7)

(Precast concrete construction)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001962620001-4"

YEL'SINOVSKIY, V.B., inzhener.

Large silicate blocks for residential construction. Stroi.prom. vol. 31
no.9:2-8 S '53.

(MLRA 6:9)

(Precast concrete construction)

YEL'SINOVSKIY, V., inzhener.

Making large construction elements out of cellular shale ash
concrete. Stroi.mat., izdel.i konstr. no.6:10-12 Je '55.
(Building blocks) (MIRA 9:1)

YEL'SINOVSKIY, Vladimir Borisovich; PRUDENTOV, A.I., inzhener, nauchnyy
redaktor; KARPOV, V.V., redaktor izdatel'stva; PUL'KINA, Ye.A.,
tekhnicheskiy redaktor

[Making large panels for walls] Proizvodstvo krupnykh stenovykh
blokov. Leningrad, Gos. izd-vo lit-ry po stroit. i arkhitekture,
1956. 157 p.

(Walls) (Building blocks)

(MLRA 9:10)

YEL'SINOVSKIY, V.B., inzhener; Fragin, Ya.I.

Manufacture of large wall blocks in plants producing small slag-concrete blocks. Elek.sta. 27 no.11:36-38 N '56. (MLRA 10:1)
(Concrete blocks)

AORANOV, Ye.N., inzhener; YEL'SHOVSKIY, V.B., inzhener.

Reinforced concrete centrifuged poles for electric transmission lines.
Mekh. stroi. 14 no.2:14-18 P '57. (MLRA 10:4)
(Electric line--Poles) (Precast concrete)

YEL'SINOVSKIY, V.B., inzhener.

Precast reinforced concrete used in the construction of a thermal electric power station. Mekh.trud.rab. 10 no.12:34-38 D '56.

(MLRA 10:5)

(Leningrad--Electric power plants)
(Precast concrete construction)

AUTHOR: Yel'sinovskiy, V.B., Engineer SOV/118-58-2-13/19

TITLE: The Production and Assembly of Prefabricated Reinforced Concrete Poles for Electric Power Transmission Lines (Izgotovleniye i montazh sbornykh zhelezobetonnykh opor dlya liniy elektroperedach)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958,¹² Nr 2, pp 33-37 (USSR)

ABSTRACT: The author describes the drum-like centrifuges proposed by the Kollektiv Sevenergoprojekta (the Sevenergoprojekt Team) which will be built by the Svirskiy remontno-mekhanicheskiy zavod (the Svirsk Mechanical Repair Plant). These machines will be used for the production of the prefabricated reinforced concrete poles planned by the Leningrad section of Institut Teploelektroprojekt (the Teploelektroprojekt Institute). Such poles are already being erected on the electric power transmission line Vasilevichi-Rechitsa-Gomev of 110 kilovolts under construction by the Leningradelektrostroy

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SOV/118-58-2-13/19

The Production and Assembly of Prefabricated Reinforced Concrete Poles for Electric Power Transmission Lines

Trust. The mass production of the prefabricated reinforced concrete poles will give huge savings in metal.
There are 7 diagrams.

1. Transmission lines--Equipment 2. Reinforced concrete--Production

Card 2/2

GORYACHEV, Ye.Z., inzhener; IVANOV, Ye.G., inzhener; NIKITINA, A.A., inzhener;
PESTRIKOV, V.V., inzhener; YEL'ISKII, I.M., inzhener; KOROSTELIN, V.P.,
inzhener; NEVZIN, Ya.A., inzhener.

Operation practices of the Kuybyshev automatic telegraph. Vest.sviazi
16 no.2:17-20 P '56. (MLRA 9:7)

1.Nachal'nik Kuybyshevskogo telegrafa (for Goryachev).
(Kuybyshev--Telegraph--Perforating system)

YEL'SKIY, V.N.

Passage of radioactive phosphate into the cerebrospinal fluid
and its inclusion in the cerebral tissue during histamine shock.
Pat. fiziol. i eksp. terap. 8 no.6:28-31 N-D '64.

(MIRA 18:6)

1. Kafedra patologicheskoy fiziologii (zav. - prof. N.N. Trankvilitati) Donetskogo meditsinskogo instituta.

L 8598-66 EWT(d)/EWT(l)/EWA(h) IJP(c)

ACCESSION NR: AP5021167

16,44,55

UR/0139/65/000/004/0055/0059

b3

b6

AUTHOR: Yelsukov, A. N.

TITLE: Rigorous solution of the problem of a cylindrical resonator with ferrite

SOURCE: IVUZ. Fizika, no. 4, 1965, 55-59

TOPIC TAGS: ferrite, cavity resonator, microwave technology, Maxwell equation,
electromagnetic field

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ABSTRACT: The author considers a circular cylindrical cavity resonator operating in the $T_{M_{nm0}}$ mode, in which a ferrite hollow cylinder is coaxially inserted. The lengths of the ferrite and of the cavity are equal. The radius and thickness of the ferrite insert is arbitrary. The resonator is assumed ideally conducting, and the solution is based on Maxwell's equations. A transcendental equation is derived for the connection between the complex frequency of the cylindrical resonator and its geometrical dimensions, the electromagnetic parameters of the ferrite, and the volume and location of the sample. The equation also takes into account the dielectric properties of the ferrites and is a generalization of previously derived equations by others. Since numerical results are rather difficult to obtain from this formula, simplified computation procedures will be presented in a future paper. Orig. art. has: 1 figure and 12 formulas.

Card 1/2

L 8598-66
ACCESSION NR: AP5021167

ASSOCIATION: Sibirskiy fiziko-tehnicheskiy institut imeni V. D. Kuznetsova
(Siberian Physicotechnical Institute)

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SUBMITTED: 29Dec63

ENCL: 00

SUB CODE: EU, EE

NR REF Sov: 003

OTHER: 002

Jrn

Card 2/2

L 8599-66 EWT(d)/EWT(1)/EWA(h) IJP(c)

ACCESSION NR: AP5021168

UR/0139/65/000/004/0060/0065

AUTHOR: Yelsukov, A. N.

TITLE: Rigorous solution of the problem of a cylindrical resonator with a ferrite
and dielectric

SOURCE: IVUZ. Fizika, no. 4, 1965, 60-65

TOPIC TAGS: ferrite, cavity resonator, dielectric coating

ABSTRACT: A rigorous solution is obtained of the problem of a cylindrical resonator operating in the TM_{nn0} mode with ferrite and dielectric inserts. The problem is solved by reducing the fourth-order wave equation to one of second order, since it is assumed that the electromagnetic field components do not depend on the z coordinate. The resonator is assumed to be an ideal conductor, and the conductivity of the ferrite and dielectric to be zero. The Maxwell equations for each region are solved by separation of variables. The solutions are linear combinations of cylindrical Bessel and Neumann functions. After satisfying the boundary conditions, eight algebraic equations are obtained and solved. A characteristic transcendental equation is obtained for the complex resonance frequency of the resonator relating the frequency with the geometrical dimensions, electromagnetic parameters, and the

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L 8599-66

3

ACCESSION NR: AP5021168

volume and location of the ferrite and dielectric samples. The special cases of a resonator with a hollow ferrite cylinder and with thin-walled ferrite and dielectric cylinders are considered. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Sibirskiy fiziko-tehnicheskiy institut imeni V. D. Kuznetsova
(Siberian Physicotechnical Institute)

SUBMITTED: 29Dec63 ENCL: 00 SUB CODE: EC

NR REF Sov: 002 OTHER: 002

Card 2/2 pw

YEL'SKIY, V.N.

Permeability of the hematoencephalic barrier to P^{32} in peptone
shock. Biul. eksp. biol. i med. 60 no.11:36-38 N '65.
(MIRA 19:1)
1. Kafedra patofiziologii (zav. - prof. N.N. Trankvilitati)
Donetskogo meditsinskogo instituta. Submitted February 27, 1964.

L 8600-66 EWT(1)/EWA(h) IJP(c)
ACCESSION NR: AP5021169 44, 55

UR/0139/65/000/004/0066/0071
61

AUTHOR: Yel'sukov, A. N.; Leshchev, E. V.
TITLE: Measurement of electromagnetic parameters of magnetized ferrites by the D
resonator method

SOURCE: IVUZ. Fizika, no. 4, 1965, 66-71

TOPIC TAGS: ferrite, cavity resonator, magnetic permeability, dielectric constant,
magnetization curve, magnetic field measurement, electric measurement

ABSTRACT: This paper was reported at the Third All-Union Scientific and Technical
Conference on Ferrites held in Leningrad on 24 October 1963. The authors describe
a test setup for the measurement of the dielectric constant and the components of
the magnetic permeability tensor of a magnetized ferrite as functions of the ex-
ternal magnetic field (from 0 to 50 oe). The measurement procedure is based on the
use of a cylindrical resonator excited by circularly polarized waves, described by
H. E. Bassey and L. S. Steinert (Trans. IRE MTT-6, No. 1, 72, 1958). Formulas are
derived for the determination of the dielectric constant, the permeability matrix
components, and the relative frequency deviation in the cavity. The method also
makes it possible to determine the magnetization curve of the magnetized ferrites.
The experimental curves obtained with the apparatus were in agreement with the

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ACCESSION NR: AP5021169

theoretical deductions. Measurement results are presented for Mg--Cr--Cu ferrites. An accuracy of not more than 10% for the dielectric constant and 1--2% for the permeability are claimed. Orig. art. has: 3 figures and 6 formulas.

3

ASSOCIATION: Sibirskiy fiziko-tehnicheskiy institut imeni V. D. Kuznetsova
(Siberian Physicotechnical Institute)

SUBMITTED: 29Dec63 44,55 ENCL: 00

NR REF Sov: 003 OTHER: 007

SUB CODE: EC, EE

Card 2/2 pu

1-46762-66 EWT(1) IJP(c)
ACC NR: AR6004332

SOURCE CODE: UR/0274/65/000/009/A055/A055

52
B

AUTHOR: Yelawkov, A. N.

REF SOURCE: Dokl. Nauchno-tekhn. konferentsii, posvyashch. dnyu radio, Tomsk, Tom-skiy un-t, 1964, 124-130

TITLE: Rigorous solution of the problem of a cylindrical resonator with a ferrite

SOURCE: Ref. zh. Radiotekhnika i elektronika, Abs. 9A390

25

TOPIC TAGS: cavity resonator, ferrite, magnetic permeability, dielectric property

TRANSLATION: A cylindrical cavity resonator R , operating in the TM_{nm0} mode and housing a hollow cylindrical ferrite is considered. The ferrite is magnetized by the external constant field. The magnetic permeability of the ferrite is represented by a tensor. A transcendental equation which relates the natural frequencies of R to its geometric dimensions, the electrical parameters of the ferrite, and the location of the ferrite is derived. For a large change in frequency, this equation, in addition to the magnetic properties, permits the consideration of the pronounced dielectric characteristics of the ferrite. Two special cases of the equation are considered: where the ferrite is placed close to the cylindrical wall of R , and where the ferrite specimen is in the form of a rod situated along the axis of R . 5 references. V. S.

SUB CODE: 09,20/ SUBM DATE: none

UDC: 621.372.413:621.372.853.2

Card 1/1

YELSTKOV, I.

Soils - Anaylsis

Determining the degree of soil salinity by the "stream method." Khopkovodstvo No. 10, 1951.

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YEL'SUKOV, I.Ye.

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irrigation; applicable to strong soils of irrigated valleys.
Pochvovedenie no.1:84-90 Ja '62. (MIRA 17:1)

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YELSKOV, M. P. I SHANI, S. S.

29778

Novyy etap V Razvitiia Kormoproizvodstva. Sov. zootyekhniiyz, 1949, No. 5, S. 60-67

SOI LETOPIS' NO. 40

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2. USSR (600)
4. Agricultural Research
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9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

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YEL'SUKOV, M.P.; KOLOSKOV, P.I.; LAPTEV, I.D.; LEONT'YEV, N.P.; PECHNI-
KOV, A.N.; PROKHOROV, A.I.; RUDENKO, N.A.; CHERDANTSEV, G.N.; YAKIMOV, A.T.

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YEL'SUKOV, M.P., redaktor; GRIGOR'YEVA, A.I., redaktor; PIRESYPKINA, Z.,
tekhnicheskiy redaktor; ZUBRILINA, Z., tekhnicheskiy redaktor

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stvennykh nauk im. Lenina. (for Yelsukov)
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YEL'SUKOV, M.P., redaktor; ZAVERIN, A.S., redaktor; GUR'EVICH, M.M.,
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Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 317 p. (MLRA 10:3)

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KONYUSHKOV, N.S., kandidat sel'skokhozyaystvennykh nauk; MOVSISYANTS, A.P.,
kandidat sel'skokhozyaystvennykh nauk; YEL'SUKOV, M.P., kandidat
sel'skokhozyaystvennykh nauk, redaktor; YEREMIN, G.P., kandidat
sel'skokhozyaystvennykh nauk, professor; SMELOV, S.P., doktor biologicheskikh
nauk, professor; TSATSENKIN, I.A., doktor biologicheskikh
nauk, professor; MOROZOV, D.N., redaktor; HALLOD, A.I., tekhnicheskiy
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(Feeding and feeding stuffs)

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Feed supply is a decisive factor. Nauka i pered. op. v sel'khoz. 7
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1. Direktor Vsesoyuznogo nauchno-issledovatel'skogo instituta kormov.
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Effect of fertilizers on the germinative capacity of annual forage plants. Dokl.Akad.sel'khoz.22 no.1:24-28 '57. (MLRA 10:2)

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(Forage plants) (Fertilizers and manures) (Germination)

YEL'SUKOV, M.B.

[Ways of increasing forage crop production] Puti uvelicheniya
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YEL'SUKOV, M.P.; TYUTYUNNIKOV, Anatoliy Ivanovich

[Annual forage plants in seed mixtures] Odnoletnie kormovye
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(MIRA 13:7)

YELSKOV, M.P.

Small-seeded beans are valuable high-protein plants. Agro-biologija no.2:231-240 Mr-Apr '61. (MIRA 14:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov imeni V. R. Vil'yamsa, Moskovskaya oblast'. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina.
(Beans)

YELSKOV, M.P.; GROMOVA, L.I.; YUSHONKOVA, N.P.

Converting the spring field pea (*Pisum arvense*) into the winter
field pea. Agrobiologiya no.6:800-805 N-D '61. (MIRA 15:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov imeni
V.R. Vil'yams, st. Lugovaya, Moskovkoy oblasti.
(Field pea)

YELSKOV, M.P.

Small-seed beans on collective and state farm fields. Zem-
ledelie 23 no.4:60-61 Ap '61. (MIRA 14:3)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
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(Beans)

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(Beans)

YELSKOV, M.P.; GROZKOVA, L.I.; KOVIKOVA, A.V.

Pinching back and defoliation of forage beans in Moscow Province.
Zemledelie 24 no.7:31-35 Jl '62. (MIRA 15:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov imeni
V.R. Vil'yamsa. 2. Chlen-korrespondent Vsesoyuznoy akademii
sel'skokhozyaystvennykh nauk imeni Lenina (for Yelsukov).
(Moscow Province—Beans)
(Defoliation)

YEL'SUKOV, M.P.

Pay the greatest attention to the production of feeds..
Zhivotnovodstvo. 23 no.6:3-6 Je '61. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov imeni
V.R.Vil'yamsa. Chlen-korrespondent Vsesoyuznoy akademii
sel'skokhozyaystvennykh nauk imeni Lenina.
(Forage plants)

YELSUKOVA, N.P.

Wintering forage peas produced by the All-Union Scientific
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1. Vsesoyuznyy nauchno-issledovatel'skiy institut kormov,
stantsiya Lugovaya, Moskovskaya oblast'.

STREKOPYTOV, Viktor Vasil'yevich; KURBATOV, Anton Ivanovich;
YEL'SUKOV, V.A., inzh., retsenzent; NOVIKOV, A.V., inzh.,
red.; GROMOV, Yu.V., tekhn. red.

[Electric drive of the VMEl diesel locomotive] Elektriche-
skaia peredacha teplovoza VMEl. Moskva, Transzheldorizdat,
1962. 54 p. (MIRA 15:6)
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YEL'SUKOV, V.M.

Group experiments in a physics course. Fiz. v shkole 21 no.1:
53-55 Ja-F '61. (MIRA 14:9)

1. 20-ya srednyaya shkola, Leninsk-Kuznetskiy.
(Physics--Experiments)

188200

1454

32215

D/159/61/000/CIA/1454-0
R073/E535

AUTHORS

Panin, V. Ye. and Yelsukova, T. F.

TITLE

On the stimulating effect of deformation on softening during extension

PERIODICAL

Izvestiya vysshikh uchebnykh zavedeniy. fizika.
no. 4, 1961, 23-27

TEXT: In earlier work the authors and their team studied the stimulating influence of deformation on the softening of polycrystalline copper during compression. In the case of extension, the deformation is more uniform and the stimulating effect on softening may be less pronounced. The stimulating effect on this problem under various conditions of temperature deformation was stretched at room temperature by 24% at a rate of 5%/min. Following that, some of these specimens were additionally stretched at a higher temperature at room temperature by 50 mm long and 30%/min, respectively. For the duration of this deformation, the remaining specimens were merely annealed at the same temperature. Following that, the resistance to deformation at room

On the stimulating effect of ...

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temperature of all the specimens was tested. The temperature range of the secondary deformation was so chosen that there should be no reversal during ordinary annealing at these temperatures. In the case of uniform tension, this range may be large and in the given case amounted to about 230°C. The investigations have shown that the stimulating effect of deformation also exists in the case of extension but, compared to compression, it is less pronounced and will not always occur. Fig. 1 shows the obtained results (true stress, kg/mm² vs. reduction, %). Curve 1 relates to specimens not additionally deformed (i.e. which were only annealed); curve 2 relates to specimens that have been additionally stretched by 1.5% at 200°C at a rate of 0.155%/min., curve 3 relates to specimens which have been annealed only at 200°C after being preliminarily stretched at 20°C, curve 4 relates to specimens that have been additionally deformed at 200°C after being preliminarily stretched at 20°C. According to curves 3 and 4 the specimens that have been additionally stretched at 200°C have a resistance to deformation during subsequent stretching about 0.7 - 0.1 kg/mm² lower than specimens which have been

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On the stimulating effect of ...

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E073/E535

annealed only at that temperature. For specimens for which the high temperature deformation was carried out at a rate of 30%/min, the difference dropped to only 0.2-0.3 kg/mm². If at this higher deformation rate the additional deformation was increased to 4%, the effect became negative. The authors did not arrive at final conclusions relating to the nature of the stimulating influence of the secondary deformation on softening, which is associated with elimination of preliminary work hardening at a lower temperature. The reduction of the low temperature work hardening depends on the speed and temperature of the second high temperature deformation. There are 1 figure and 20 references: 13 Soviet-bloc and 7 non-Soviet-bloc. The four latest English-language references read as follows: Ref.11: Titchener, M.B.Bever. Acta met., No.10, 1959; Ref.14: T. Broom, R.Ham. Vacancies and other Point Defects in Metals and Alloys, L., 1958; Ref.15: A.H.Cottrell, R.J.Stokes. Proc. Roy. Soc., A 233, No.1192, 1955-56; Ref.16: Adams, A.H.Cottrell. Phil.Mag., 46, No.382, 1955.

ASSOCIATION: Sibirskiy fiziko-tehnicheskiy institut pri
Tomskom gosuniversitete imeni V. V. Kuybysheva

Card 3/4